



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,003	09/11/2003	Se-Jin Lee	JHU1410-1	8520
7590 04/28/2005			EXAMINER	
Lisa A. Haile, J.D., Ph.D.			KIM, YOUNG J	
GRAY CARY	WARE & FREIDENRI	CH LLP		
Suite 1100			ART UNIT	PAPER NUMBER
4365 Executive Drive			1637	
San Diego, CA 92121-2133			DATE MAILED: 04/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/662,003	LEE ET AL.
Office Action Summary	Examiner	Art Unit
<u>:</u>	Young J. Kim	1637
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati  - If the period for reply specified above, is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by  - Any reply received by the Office later than three months after the  - earned patent term adjustment. See 37 CFR 1.704(b).	ION. EFR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of the period will apply and will expire SIX (6) MC statute, cause the application to become A	a reply be timely filed  irty (30) days will be considered timely.  INTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		·
	This action is non-final.	·
3) Since this application is in condition for al	lowance except for formal ma	tters, prosecution as to the merits is
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-24 is/are pending in the applic 4a) Of the above claim(s) is/are wit 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-24 are subject to restriction an	hdrawn from consideration.	
Application Papers	aren ereenen re <b>qu</b> irementi	
9)☐ The specification is objected to by the Exa	ıminer	
	] accepted or b)⊡ objected to	by the Examiner.
Applicant may not request that any objection t		
Replacement drawing sheet(s) including the c	orrection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d)
11) The oath or declaration is objected to by the	ne Examiner. Note the attache	ed Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for fo</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> </ul>	ments have been received.	
3. Copies of the certified copies of the	priority documents have been	
application from the International B		
* See the attached detailed Office action for	a list of the certified copies no	t received.
Attachment(s)		
) DNotice of References Cited (PTO-892)		Summary (PTO-413)
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-94)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date</li> </ul>	~′	(s)/Mail Date Informal Patent Application (PTO-152)
. Patent and Trademark Office OL-326 (Rev. 1-04) Off	ice Action Summary	Part of Paper No./Mail Date 04272005

Application/Control Number: 10/662,003

Art Unit: 1637

#### **DETAILED ACTION**

#### Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-22, drawn to a method for detecting the presence of a target myostatin variant nucleic acid and kits for said detection, classified in class 435, subclass
   91.1. This Group requires a further species election.
- II. Claim 23, drawn to a kit comprising an antibody specific to amino acid residues
   1-273 of a wild-type myostatin polypeptide, classified in class 435, subclass
   387.1.
- III. Claim 24, drawn to a kit comprising an antibody specific to amino acid residues 274-375 of a wild-type myostatin polypeptide, classified in class 435, subclass 3871.1.

The inventions are distinct, each from the other because of the following reasons:

Invention I is unrelated to Inventions II and III. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group is drawn toward the detection of a nucleic acid variant and a kit for said detection, not requiring the antibodies comprised in kits of Groups II and III, said antibodies being specific for wild-type myostatin polypeptide.

The kit of Group II is patentably distinct from the kit of Group III because the antibody of comprised in the Group II is specific for a structurally different portion of the wild-type

Art Unit: 1637

myostatin polypeptide – residues 1-273 – where the antibody comprised in the kit of Group III is specific for residues 274-375. The two antibodies are specific for non-overlapping and structurally different regions of the polypeptide, rendering the kits comprising said antibodies patentably distinct.

## Species Requirement for Group I

This application contains claims directed to the following patentably distinct species of the claimed invention: Claim 4 embraces patentably distinct myostatin variants as recited below:

- i) myostatin variant nucleic acid sequence comprising base pair deletion consisting of nucleotides 937-947 (claim 5); and
- ii) myostatin variant nucleic acid sequence comprising the mutation G to A substitution at position 1056 of the myostatin gene (claim 6).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added.

If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the

Art Unit: 1637

examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

## Additional Sequence Election Required for Group I

In addition Group I employs patentably distinct nucleic acid probes, which are unrelated.

Applicants are required to elect a single nucleic acid hybridization probe (single SEQ ID Nubmer) (as recited in claims 11 and 16) which is consonant with the species requirement made above. For example, if Applicants elected species i), the elected SEQ ID Number for the instant requirement *must* be commensurate with the elected species. If none of the SEQ ID Numbers are drawn to the elected species, claim will be withdrawn from further consideration as being drawn to non-elected invention.

Additionally, Applicants are required to elect a single SEQ ID Number corresponding to the target nucleic acid sequence to which the elected target probe detects.

In sum, Applicants *must* elect:

A) Groups I, II, or III;

If Group I is elected:

a) species requirement; and

a-i) SEQ ID Numbers readable on the elected species.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

A telephone call was not made to request an oral election to the above restriction requirement due to the complex nature of the requirement (MPEP § 812.01).

Art Unit: 1637

### Inquiries

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Young J. Kim whose telephone number is (571) 272-0785. The Examiner is on flex-time schedule and can best be reached from 8:30 a.m. to 4:30 p.m. The Examiner can also be reached via e-mail to Young.Kim@uspto.gov. However, the office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route.

If attempts to reach the Examiner by telephone are unsuccessful, the Primary Examiner in charge of the prosecution, Dr. Kenneth Horlick, can be reached at (571) 272-0784. If the attempts to reach the above Examiners are unsuccessful, the Examiner's supervisor, Gary Benzion, can be reached at (571) 272-0782.

Papers related to this application may be submitted to Art Unit 1637 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If applicant does submit a paper by FAX, the original copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office. All official documents must be sent to the Official Tech Center Fax number: (571) 273-8300. For Unofficial documents, faxes can be sent directly to the Examiner at (571) 273-0785. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1600.

Young J. Kim Patent Examiner

Art Unit 1637 4/27/05 YOUNG J. KIM
PATENT EXAMINER